Message

From: Nordine, John [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6F082FB004BA4D818FE3276686C84C63-JNORDINE]
Sent: 2/21/2019 8:41:29 PM
To: Bob Kay [rtkay@usgs.gov]
Subject: FW: November 2018 Monthly Progress Report, Response to EPA Comments

Flow meeter repair at EW-1.

From: jack@autumnwoodesh.com <jack@autumnwoodesh.com>
Sent: Tuesday, January 15, 2019 4:10 PM
To: Nordine, John <nordine.john@epa.gov>
Cc: Gerald Ruopp <gruopp@centralwire.com>; 'Robert Johnson' <robert.johnson@centralwire.com>
Subject: FW: November 2018 Monthly Progress Report, Response to EPA Comments

John:

Central Wire, Inc.'s (CWI) responses to EPA comments on the November RCRA CMI Monthly Progress Report are integrated into EPA's comments, below.

Regards,

Jack

John W. Thorsen, P.E.
Autumnwood ESH Consultants, LLC
262.237.1130

From: Nordine, John <nordine.john@epa.gov>
Sent: Thursday, December 20, 2018 3:09 PM
To: Gerry Ruopp <gerry.ruopp@centralwire.com>
Cc: jack@autumnwoodesh.com; Robert Johnson <robert.johnson@centralwire.com>; 'Joyce Munie' <joyce.munie@illinois.gov>; Kay, Robert T <rtkay@usgs.gov>
Subject: RE: November 2018 Monthly Progress Report EPA Comments

Hi Gerry,

EPA's has reviewed of the November 2018 Monthly Progress Report for the Techalloy Facility in Union, Illinois. EPA has the following comments on the report:

Groundwater Pump and Treat System: Techalloy appears to be citing several pumping rates. Is EW-1 pumping at 425 gpm, or 296? or 400? Is EW-2 pumping at 185 or 250 GPM?
Table 1 notes total pumping is 687,000 gpd, and EW-1 is pumping at 612,000 gpd on average, then EW-2 must be pumping at 75,000 gpd, which is 52 gallons per minute.
Techalloy needs to determine, and report, how much each of these wells is actually pumping per day, and per minute. It appears that Techalloy have been reporting optimal pumping rates rather than actual pumping rates in the text and in Table 1. Techalloy needs to provide the true rate of pumping given the actual pumping regimen--presumably both wells are pumping most/all the time rather than just one.

CWI completed the re-acidification of EW-2 in December and reassembled the pump. CWI is replacing the inoperable flow meter in EW-1 and will then be able to measure the flow in EW-1 and ascertain the flow from EW-2 by subtracting the EW-1 flow from the pump and treat system total flow meter. The replacement EW-1 flow meter should arrive in January, so CWI should be able to determine the flow per day and per minute by the end of January.

Techalloy needs to specify how much time during a given month EW-1 and EW-2 are pumping, and if they pump separately or together.

Unless a pump is undergoing maintenance, they pump together, 24/7.

Techalloy also need to identify how they determine the pumping rate. Do they have a flowmeter?

Discussed above.

Because the rate and volume of pumping affect the size of the capture zone, an accurate understanding of the actual pumping rate from EW-1 and EW-2 is an essential component to assessing the effectiveness of the extraction system.

Ex. 6 Personal Privacy (PP) Samples and Well Usage: It is EPA's understanding based on the previous submissions that the flowmeter on the Ex. 6 Personal Privacy (PP) reads total flow. If so, the value on the flowmeter when the well was shut down for the season is available and should be provided.

From the October MPR: "The total flow on the Ex. 6 Personal Privacy (PP) flowmeter on November 5 was 66,337,855. On October 10 the flowmeter showed the total flow at 66,130,453 gallons. Therefore, Ex. 6 Personal Privacy (PP) used 207,402 gallons over 26 days or approximately 7,800 GPD, significantly less than the average of approximately 65,000 GPD in September."

The irrigation well was shut off before November 5, 2018, therefore the final reading for 2018 was 66,337,855

Ex. 6 Personal Privacy (PP) and CWI Pump & Discharge Wells at Ex. 6 Personal Privacy (PP) It's acceptable to use preliminary calculations to assess the pumping rate for the new pump and treat well, but a multiple well, constant discharge aquifer test will need to be done using the new well to determine the actual pumping rates required.

Understood and as discussed before, CWI will seek Ex. 6 Personal Privacy (PP) approval to place three temporary 2" wells to accomplish this task.

If you have any questions or comment please contact me.

Respectfully,

John Nordine, CPG, LPG
U.S. EPA, Region 5
RCRA Corrective Action Section
77 W. Jackson Blvd. LU-16J
Chicago, Illinois 60604

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"The great end of education is to discipline rather than finish the mind; to train it to use of its own powers rather than to fill it with the accumulation of others." Tryon Edwards
"Don't interfere with anything in the Constitution. That must be maintained, for it is the only safeguard of our liberties." Abraham Lincoln
"Many people use statistics in the same manner in which a drunk uses a lamp post; for support, rather than for illumination." Mark Twain

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From: Gerry Ruopp <gerry.ruopp@centralwire.com>
Sent: Monday, December 17, 2018 4:52 PM
To: Nordine, John <nordine.john@epa.gov>
Cc: jack@autumnwoodesh.com; Robert Johnson <robert.johnson@centralwire.com>; 'Joyce Munie' <joyce.munie@illinois.gov>; Kay, Robert T <rtkay@usgs.gov>; Gerry Ruopp <gerry.ruopp@centralwire.com>
Subject: November 2018 Monthly Progress Report

John –
Attached is the Monthly Progress Report for November 2018. Also attached per your request is the McHenry Count Permit for the Pump & Discharge and Test Wells.

Sincerely,

Gerry Ruopp

Gerald Ruopp
General Manager, Central Wire Industries
815-923-4828 | centralwire.com